DNK Power Technology Co., Ltd

SPECIFICATION OF PRODUCT

For Lithium-ion Battery Pack

12.8V 300Ah(3840Wh)

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12.8V 300AH（3840Wh）
Lithium-ion Battery Pack Specification

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1、Product Introduction

1.1 Specifications

NO	Item	SPEC	Remark
1	Rated Capacity	300AH	
2	Rated Voltage	DC12.8	
3	Rated Energy	3840wh	
4	Operating Voltage	10V～14.6V	2.5V～3.65V
5	Max. Charge Current	150A	0.5C
6	Max. Discharge Current	200A	
7	Peak Current	500A	
8	Ip Grade	IP21	
9	Discharge Temp	-10℃～55℃	
10	Charge Temp	0℃～55℃	
11	Dimension	L440*W190*H270（mm）	
12	Weight	28Kg	
13	Internal Resistance	≤30mΩ	
14	Cycle Life	5000	25℃
15	Case Material	Metal	
16	Communication	RS485	

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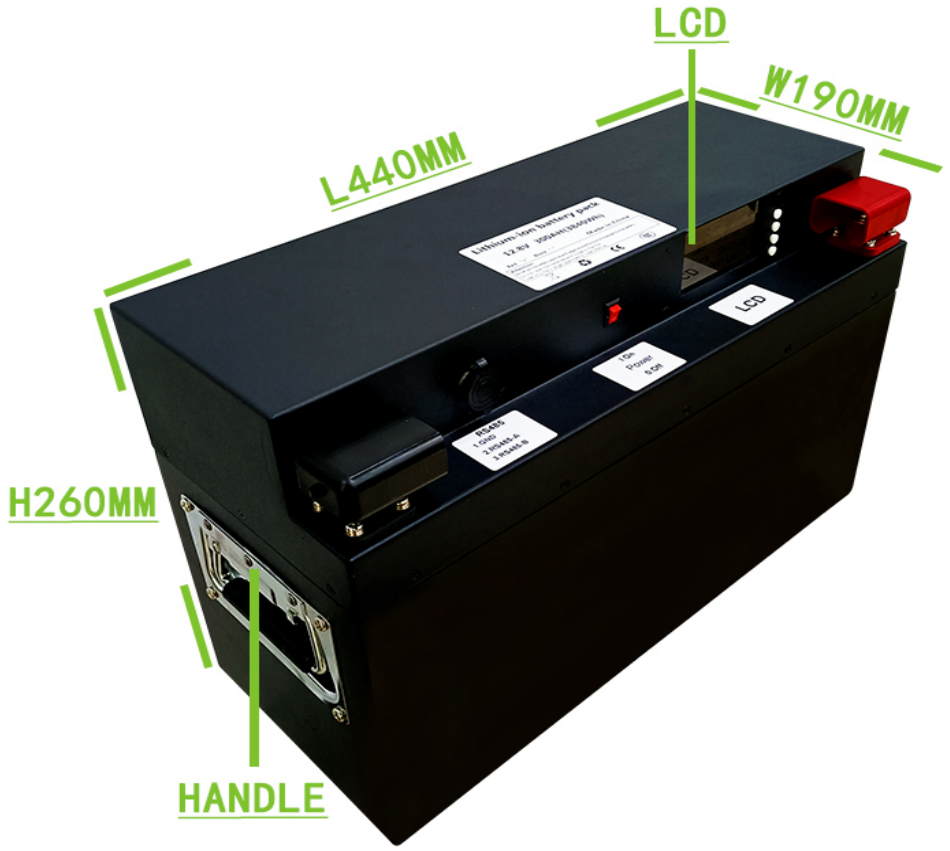
1.2 Model



1.3 Interface Command

Item	SPEC	Interface	Refer
POSITIVE	M8 copper pillar	Red	
NEGATIVE	M8 copper pillar	Black	
Display	LED display	Four keystrokes	
485 Communication Interface	1.GND 2.DATA＋（A） 3.DATA－（B）	M16	
POWER	Switch closed, open discharge	Ship type switch	

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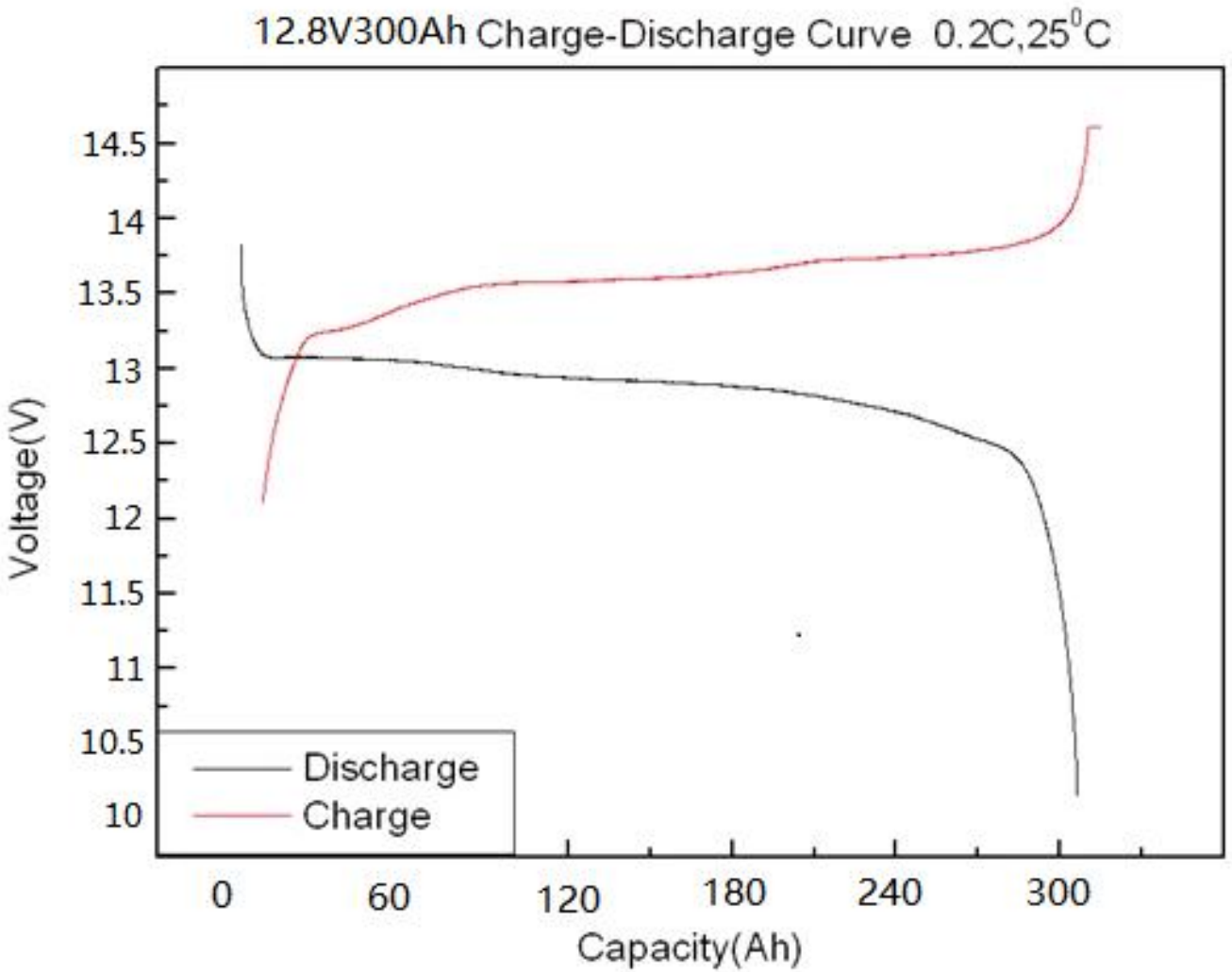
2、Characteristic Curve



BMS Description

NO	Item	MIN	MAX	Type	Unit
1	Operating Voltage	10	14.6	/	V
2	Continuous Charging Current	1	150	/	A
3	Continuous Discharging Current	1	200	/	A
4	Discharging Over Current	480	520	/	A
5	Operating Temp	-10	70	/	℃
6	Operating Humidit	10	85	/	%
7	Internal Resistance	＜10			mΩ
8	Normal Operating Consumption	＜30			mA
9	Static Total Consumption		100	50	uA

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4、Cautions

(**1**)Do not immerse the battery in water, and keep the battery in a cool dry surrounding if it stands by.
(**2**)Do not use or leave the battery at high temperature as fire or heater. Otherwise, it can overheat or fire or its performance will be degenerate and its service life will be decreased.
(**3**)Do not reverse the position and negative terminals.
(**4**)Do not connect the battery electrodes to an electrical outlet.
(**5**)Do not short circuit. Otherwise it will cause serious damage of the battery.
(**6**)Do not transport or store the battery together with metal objects such as hairpins, necklaces, etc.
(**7**)Do not use the battery in a location where static electricity and magnetic field is great, otherwise, the safety devices may be damaged, causing hidden trouble of safety.Turn off the switch on its base.
(**8**)Please use special lithium charger.
(**9**)It should be noted that the cell would be possible to be at a over-discharged state by its self-discharge characteristics in case the cell is not used for long time. In order to prevent over-discharging, the cell shall be charged periodically to maintain about 13.6V(Recommended 3 months one cycle).Over-discharging may causes loss of cell performance, characteristics, or battery functions.
(**10**)Do not disassemble battery.

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Company is not responsible for the incident caused by not obeying the specifications. Before using the battery, you should read the specifications, usage instruction and some attentions carefully to learn its application method and areas. If the phenomenon such as error using method or wrong circuit connection, or input power data, working index are inconsistent with the specifications, cause damage to product, load and its accessories, we are not responsible for it.

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